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Application No.: 10/565,994

Docket No.: JCLA19238

AMENDMENTS

In The Claims:

Please amend the claims as follows:

1. (currently amended) A fixer for a fiber bragg grating sensor S to measure a strain of an object to be measured, the fixer including:

a pair of fixing pieces 3 for securing the fiber bragg grating sensor S to the object, wherein each of the fixing pieces 3 has a sensor holding groove 3b at a bottom surface of the fixing piece, and a tube receiving portion 3a protruded from one side of the fixing piece, which communicates with the sensor holding groove 3b, wherein each fixing piece 3 with the tube receiving portion 3a is an integrate structure in assembly for measuring the strain of the object; and

a tube 2 enclosing the fiber bragg grating sensor S₂ [[is]] disposed between the pair of fixing pieces 3, such that both ends of the tube 2 are detachably secured to each of the tube receiving portions 3a of the fixing pieces 3 by a fastening member 4,

wherein the tube 2 is not directly fixed to a surface of the object to be measured; and the fiber bragg grating sensor S is inserted into the tube 2, and both ends of the fiber bragg grating sensor S are firmly secured to the sensor holding groove 3b of the fixing piece 3 by an adhesive F.

- 2. (original) The fixer as claimed in claim 1, further comprising a cover 6 for closing the sensor holding groove 3b of the fixing piece 3.
- 3. (previously presented) The fixer as claimed in claim 1, wherein each of the fixing pieces includes the tube receiving portion protruded from each side of the fixing pieces, a threaded hole is formed on an upper portion of the tube receiving portion for exposing a side

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surface of the tube, and a fastening bolt is threadedly engaged with the threaded hole for selectively compressing and fastening the tube from the side surface through the thread hole.

- 4. (original) The fixer as claimed in claim 1, wherein the sensor holding groove 3b is formed with at least one anti-slip groove 3c at an inner side thereof, so that when the adhesive F filled in the sensor holding groove is hardened, it prevents a clearance form being produced in the sensor holding groove 3b due to a coefficient of linear expansion between the fixing piece 3 and the adhesive F.
- 5. (original) The fixer as claimed in claim 1, further comprising a fixing plate 7 attached to the object to be measured, so that the fixing piece 3 is detachably secured to the fixing plate 7 of the object by a fastening member 5.
- 6. (original) The fixer as claimed in claim 1, wherein the tube 2 inserted into the tube receiving portion 3a is provided at both ends thereof with a tap 8 to easily prevent a rotation of the tube and maintain a horizontal state thereof.
- 7. (new) The fixer as claimed in claim 1, wherein each fixing piece 3 with the tube receiving portion 3a is a single structural body.
- 8. (new) The fixer as claimed in claim 1, wherein the pair of fixing pieces 3 is to be fixed on the surface of the object while the tube 2 is not fixed to the surface of the object.
- 9. (new) The fixer as claimed in claim 1, wherein the fastening member fixes the tube 2 but not change a tension condition of the fiber bragg grating sensor S.